

Claims

- [c1] 1. A solid article comprising a compressed mixture of granular quatrepolymer compositions, quatrepolymer compositions and a calcium hypochlorite or hypochlorite – bromine additive for wastewater disinfection, or quatrepolymer compositions and a dechlorination agent such as sodium sulfite, ascorbic acid or sodium ascorbate and from about 0.5 to about 5.0 weight percent of a solid wax binder selected from the group consisting of microcrystalline hydrocarbon wax and alkali metal salts of oxidized microcrystalline hydrocarbon wax, but should not be a limitation upon the scope of the invention.
- [c2] 2. The article of claim 1 wherein the principal size distribution of the granular quatrepolymer compositions, quatrepolymer compositions and calcium hypochlorite or a hypochlorite – bromine additive for wastewater disinfection, or quatrepolymer compositions and a dechlorination agent such as sodium sulfite, ascorbic acid or sodium ascorbate is between minus 6 and plus 100 U.S. Sieve, but should not be a limitation upon the scope of the invention.
- [c3] 3. The article of claim 2 wherein the binder is present in amounts of from 0.75 to 1.75 weight percent, but should not be a limitation upon the scope of the invention.
- [c4] 4. The article of claim 3 wherein the binder is the potassium salt of oxidized microcrystalline hydrocarbon wax, but should not be a limitation upon the scope of the invention.
- [c5] 5. The article of claim 3 wherein the mass of the article is from 250 to 350 grams, but should not be a limitation upon the scope of the invention.
- [c6] 6. The article of claim 5 wherein the shape of the article is in the form of a tablet having a diameter of from about 3 to about 3.5 inches but, should not be a limitation upon the scope of the invention.
- [c7] 7. The article of claim 1 wherein at least 10 weight percent of the original mass of compressed quatrepolymer compositions, quatrepolymer compositions and calcium hypochlorite or a hypochlorite – bromine additive for wastewater disinfection, or quatrepolymer compositions and a dechlorination agent such as

sodium sulfite, ascorbic acid or sodium ascorbate remains after 6 days of contact with water, but should not be a limitation upon the scope of the invention.

[c8] 8. The article of claim 1 wherein the granular quatrepolymer compositions, quatrepolymer compositions and calcium hypochlorite or a hypochlorite – bromine additive for wastewater disinfection, or quatrepolymer compositions and a dechlorination agent such as sodium sulfite, ascorbic acid or sodium ascorbate is up to 65 weight percent polycarboxylic anionic quatrepolymer, but should not be a limitation upon the scope of the invention.

[c9] 9. The article of claim 2 wherein the principal size distribution of the granular quatrepolymer compositions, quatrepolymer compositions and calcium hypochlorite or a hypochlorite – bromine additive for wastewater disinfection, or quatrepolymer compositions and a dechlorination agent such as sodium sulfite, ascorbic acid or sodium ascorbate is between minus 10 and plus 45 U.S. Sieve, but should not be a limitation upon the scope of the invention.

[c10] 10. The article of claim 9 wherein the binder is present in amounts of from 0.75 to 1.75 weight percent, but should not be a limitation upon the scope of the invention.

[c11] 11. The article of claim 10 wherein the density of the article is between about 1.6 and 2.3 grams per cubic centimeter, but should not be a limitation upon the scope of the invention.

[c12] 12. The article of claim 10 wherein the principal size distribution of the granular quatrepolymer compositions, quatrepolymer compositions and calcium hypochlorite or a hypochlorite – bromine additive for wastewater disinfection, or quatrepolymer compositions and a dechlorination agent such as sodium sulfite, ascorbic acid or sodium ascorbate is between minus 6 and plus 60 U.S. Sieve, but should not be a limitation upon the scope of the invention.